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Device for the Creation of an Air Swirl in the
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Means of a Deflector Located on the Valve Seat
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Valve, Invented by S. Maurer.

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Patented from 2/2/43 onward.

Assoc Tech Serv-49059

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C-22 NP NSA Dep.(mc); \$1.60(fs), \$0.80(mf)
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Nov. 19-24, 1939.

Applicability of Huey's Corrosion Test to Welds'
on Stainless Steels.

Brutcher Trans., Order No. 895, \$1.00

17 7857

in solution at room temperature. Upon cooling, rapid saturation will cause precipitation of hydrogen in all discontinuities of the metal (intergranular joints, inclusions, pores, etc.) where it recombines into the molecular insoluble form producing local pressure which may be considerable; The combination of stresses resulting from the pressure of these gas pockets, from thermal contraction and possible martensitic transformation of these semi-special steels may produce permanent deformation and rupture; Localization of these cracks and the fact that they may be eliminated by drying the coating suggests that hydrogen is the principal cause.
(Author)

CAUSES AND EFFECTS OF THE PRESENCE OF HY-
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Order from SLA \$1.10

62-18441

Trans. of Revue de Métallurgie (France) 1947
[v. 44, no. 5/6] p. 180-186.

DESCRIPTORS: *Welds, *Steel, Fracture (Mechanics),
Gases, *Hydrogen, Chemical precipitation.

If hydrogen or reducing gases rich in hydrogen are
present during welding, hydrogen atoms may go into
solution in the metal in amounts which may be several
thousand times greater than those in solution at ordin-
ary temperature; The base metal adjacent to the line of
fusion occurring at a very high temperature will absorb,
by diffusion, quantities of hydrogen several hundred
(Metallurgy, IT, v. 9, no. 4)

(over)

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C227744

Office of Technical Services

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(over)
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The Desulphurization of Basic Bessemer Iron and
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GERMAN, PER, ANGEWANDTE CHEMIE, VOL LXV, NO 23,
1953, PP 586-598.

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Metzner, Roland, Scheer, Max-Martin, and
Scholze, Horst.

A RAPID QUANTITATIVE BORON DETERMINATION
IN GLASSES WITH THE AID OF THE ABSORPTION
OF NEUTRONS (Eine Schnelle Quantitative
Borbestimmung in Gläsern mit Hilfe der Absorption
von Neutronen). [1962] [16]p. (foreign text included)
8 refs.

Order from SLA \$1.60

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Trans. of Glastechn[ische] Ber[ichte] (West Germany)
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DESCRIPTORS: *Glass, *Boron, Neutron absorption,
Thermal neutrons, Determination.

A nuclear physical measuring procedure is given,
which permits a comparatively rapid and simple
quantitative determination of the B_2O_3 content of
glasses with the aid of neutron absorption in the boron.
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I. Metzner, R.
II. Scheer, M.-M.
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Mar 1954, pp 115-119, Encl to Report No
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DESCRIPTORS: *Glass, *Furnaces, Annealing,
Design, Operation, Fuel consumption.

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1541, p.26, 1938. (12p.)

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Order from SLA ml\$2.40, ph\$3.30 60-18501

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1959, v. 61, no. 11, p. 1131-1138.

It is shown that the tetrapropylenebenzenes contain
isomer mixtures. Through investigating the behavior
of alkylbenzenes to various sulfonating agents, the
ratio of the isomers in the mixture is determined. The
results lead indicate that there is no marked difference
between the fractions which can be sulfonated and
those which cannot be sulfonated. (Author)

60-18501

- I. Benzenes--Properties
- I. Metzger, A.
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Combustion of Ethylene Oxide Using Silver
Catalysts, by K. Metzer, 8 pp.

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Order from SLA \$4.60 63-18068

Trans. of Zeitschrift für Angewandte Physik (West
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DESCRIPTORS: *Magnetic properties, *Magneto-optic
effect, *Alloys, Iron alloy, Nickel alloy, Anisotropy,
Magnetism, Ferromagnetic materials, *Magnetic
materials.

The report shows which kind of magnetizing processes
occur in the area of the total layer under the influence
of slowly increased fields of arbitrary direction and
what coercitive force they possess and what factors de-
termine the various processes. (Author)

(Physics--Magnetism, TT, v. 10, no. 9)

63-18068

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1149593

Office of Technical Services

Production of steel from High Phosphorus pig iron
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The Cause and Progress of the Spontaneous Decomposition
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CAUSE AND COURSE OF SPONTANEOUS DECOMPO-
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DESCRIPTORS: *Vinyl chlorides, *Aluminium, *Chemical reactions, Aluminium alloys, Cleaning fluids, Explosive forming, *Inhibition, Decomposition.

The $AlCl_3$ developed first of all catalyzes the trichloroethylene condensation. The heat liberated produces total de-chlorination of the condensation product and complete oxidation of the aluminium shavings. The use of non-hazardous tetrachlorethylene in the future is suggested. (Author)
(Engineering--Chemical, TT, v. 9, no. 6)

I. Metz, L.
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128037

Office of Technical Services

Interior Plaster Made From Synthetic Anhydrite,
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GERMAN, per. Bauseverbe, No. 2, 1962, pp 3
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K. metz

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Physiological Studies of Workers in the
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FRENCH, rpt, Journees Information Med. Sociales
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B. D. Matyushov. 32

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